



8/26/02

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/720,533

TIME: 14:02:30

Input Set : A:\pf0541usn_seqlist.txt

Output Set: N:\CRF3\08262002\I720533.raw

6 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.

7 LAL, Preeti

8 TANG, Y. Tom

9 GORGONE, Gina A.

10 CORLEY, Neil C.

11 GUEGLER, Karl J.

12 BAUGHN, Mariah R.

13 AKERBLÖM, Ingrid E.

14 AU-YOUNG, Janice

15 YUE, Henry

16 PATTERSON, Chandra

17 REDDY, Roopa

18 HILLMAN, Jennifer L.

19 BANDMAN, Olga

21 <120> TITLE OF INVENTION: HUMAN SIGNAL PEPTIDE-CONTAINING PROTEINS

23 <130> FILE REFERENCE: PF-0541 PCT

C--> 25 <140> CURRENT APPLICATION NUMBER: US/09/720,533

C--> 26 <141> CURRENT FILING DATE: 2002-08-26

28 <150> PRIOR APPLICATION NUMBER: 60/090,762; 60/094,983; 60/102,686; 60/112,129

W--> 29 <151> PRIOR FILING DATE: 1998-06-26; 1998-07-31; 1998-10-01; 1998-12-11

31 <160> NUMBER OF SEQ ID NOS: 268

33 <170> SOFTWARE: PERL Program

35 <210> SEQ ID NO: 1

36 <211> LENGTH: 88

37 <212> TYPE: PRT

38 <213> ORGANISM: Homo sapiens

40 <220> FEATURE:

41 <221> NAME/KEY: misc_feature

42 <223> OTHER INFORMATION: Incyte Clone No: 443531

44 <400> SEQUENCE: 1

45 Met Ser Trp Trp Leu Cys Leu Pro Leu Gly Leu Phe Gly Ser Cys

46 1 5 10 15

47 Leu Ala Pro Ala Ala Ala Ala Leu Ser Glu Phe Thr Gln Glu

48 20 25 30

49 Gln His Asp Gly Ala Gln Pro Ser Pro Lys Cys Leu Ala Glu Glu

50 35 40 45

51 Leu Gly Asp Ala Trp Thr Ile Gln Ile Glu Ala Asn Trp Lys Tyr

52 50 55 60

53 Arg Ala Val Asn Thr Asn Gln Arg Gly Lys Leu Leu Ala Ser Glu

54 65 70 75

55 Thr Trp Lys Gly Arg Arg Asn Thr Phe Phe Phe Leu Pro

56 80 85

58 <210> SEQ ID NO: 2

ENTERED

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/720,533

TIME: 14:02:30

Input Set : A:\pf054lusn_seqlist.txt

Output Set : N:\CRF3\08262002\I720533.raw

```

59 <211> LENGTH: 128
60 <212> TYPE: PRT
61 <213> ORGANISM: Homo sapiens
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <223> OTHER INFORMATION: Incyte Clone No: 632860
67 <400> SEQUENCE: 2
68 Met Trp Pro Ala Gly Leu Gly Arg Ser Leu Leu Ala Gln Pro Ala
69      1              5              10              15
70 Leu Cys Ser Phe Met Gly Pro Gln Trp Ile Leu Gln Phe Cys Ser
71      20              25              30
72 Trp Leu Glu Pro Arg Gln Leu Arg Trp Ser Trp Thr Glu Pro Pro
73      35              40              45
74 Phe Thr Leu Leu Asp Ser Leu Gly Leu Arg Ala Ala Gln Asp Ser
75      50              55              60
76 Cys Ser Phe Thr Thr Leu Val Pro Leu Thr Leu Asp Ser Ser Phe
77      65              70              75
78 Met Thr Val Asn Val Val Pro Phe Val Trp Thr Ser Ser Phe Phe
79      80              85              90
80 Arg Ala Phe Gln Tyr Pro Val Thr Ser Pro Cys Arg Thr Lys Asn
81      95              100             105
82 Thr Pro Leu Leu Ile Asp Gly Val Thr Arg Ile Gln Ala Thr Trp
83     110             115             120
84 Pro Glu Ala Arg Ser Gln His Glu
85     125
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 111
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <223> OTHER INFORMATION: Incyte Clone No: 670010
99 <400> SEQUENCE: 3
100 Met Gly Leu Leu Leu Leu Val Leu Phe Leu Ser Leu Leu Pro Val
101      1              5              10              15
102 Ala Tyr Thr Ile Met Ser Leu Pro Pro Ser Phe Asp Cys Gly Pro
103      20              25              30
104 Phe Arg Cys Arg Val Ser Val Ala Arg Glu His Leu Pro Ser Arg
105      35              40              45
106 Gly Ser Leu Leu Arg Gly Pro Arg Pro Arg Ile Pro Val Leu Val
107      50              55              60
108 Ser Cys Gln Pro Val Lys Gly His Gly Thr Leu Gly Glu Ser Pro
109      65              70              75
110 Met Pro Phe Lys Arg Val Phe Cys Gln Asp Gly Asn Val Arg Ser
111      80              85              90
112 Phe Cys Val Cys Ala Val His Phe Ser Ser His Gln Pro Pro Val
113      95             100             105
114 Ala Val Glu Cys Leu Lys
115     110

```

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/720,533

TIME: 14:02:30

Input Set : A:\pf054lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I720533.raw

```

120 <210> SEQ ID NO: 4
121 <211> LENGTH: 110
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapiens
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <223> OTHER INFORMATION: Incyte Clone No: 726498
129 <400> SEQUENCE: 4
130 Met Trp Arg Leu Arg Arg Asn Leu Ala Leu Pro Pro Gly Lys Leu
131 1 5 10 15
132 Ala Trp Leu Tyr Leu Ser Val Phe Ser Gln Gly Ser Arg Ala Met
133 20 25 30
134 Met Ser Leu Thr Glu Ile Arg Leu Lys His Met Leu Glu Ile Trp
135 35 40 45
136 His Gly Arg Gln Ala Arg Ala Cys Glu Asn Leu Arg Asn Gln Thr
137 50 55 60
138 Arg Val Ala Thr Lys Val Glu Pro Gln Lys Gly Arg Ser Thr Glu
139 65 70 75
140 Ile Cys Cys Leu Ala Val Val Pro Leu Asn Glu Val Val Gln Ser
141 80 85 90
142 Ser Ile Leu Trp Trp Val Trp Ser Cys Cys Gln His Gln Glu Asp
143 95 100 105
144 Lys Leu Gly Ala Lys
145 110
150 <210> SEQ ID NO: 5
151 <211> LENGTH: 78
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <223> OTHER INFORMATION: Incyte Clone No: 795064
159 <400> SEQUENCE: 5
160 Met Ala Glu Ser Gly Leu Thr Ser Leu Pro Gly Thr Ala Ser Trp
161 1 5 10 15
162 Phe Cys Phe Leu Pro Val Ser Gln Arg Lys Ala Thr Ser Lys Lys
163 20 25 30
164 Leu Leu Leu Lys Ala Arg Lys Lys Ser Gly Phe Glu Leu Ser Val
165 35 40 45
166 Thr Asp Ser Ser Glu Cys Phe Arg Val Thr Ala Ser Val Arg Gly
167 50 55 60
168 Met Lys Asn Arg His Ala Lys Gly Asn Gly Cys Thr Arg Asp Pro
169 65 70 75
170 Cys Phe Gly
175 <210> SEQ ID NO: 6
176 <211> LENGTH: 88
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/720,533

TIME: 14:02:30

Input Set : A:\pf0541usn_seqlist.txt

Output Set : N:\CRF3\08262002\I720533.raw

```

183 <223> OTHER INFORMATION: Incyte Clone No: 924925
184 <400> SEQUENCE: 6
185 Met Trp Pro Ser Gln Val Pro Leu Leu Ala Phe Cys Phe Leu Leu
186      1          5          10          15
187 Val Lys Ser Thr Ser Asn Ile Asn Leu Pro Thr Pro Pro Pro Ser
188      20          25          30
189 Ser Leu Glu Asn Ser Ser Phe Val Val Ser Gln Arg Gly Asn Leu
190      35          40          45
191 Ile Val Phe Gly Gly Gln Lys Lys Ala Thr Phe Arg Tyr His Phe
192      50          55          60
193 Tyr Leu Asp Arg Met Pro Phe Tyr Ser Gln Ile Ser Val Tyr Phe
194      65          70          75
195 Val Asn Gly Phe Arg Val Asn Gly Tyr Leu Cys Asn Asn
196      80          85
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 227
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
205 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <223> OTHER INFORMATION: Incyte Clone No: 962390
210 <400> SEQUENCE: 7
211 Met Gly Arg Pro Leu Leu Leu Pro Leu Leu Leu Leu Gln Pro
212      1          5          10          15
213 Pro Ala Phe Leu Gln Pro Gly Gly Ser Thr Gly Ser Gly Pro Ser
214      20          25          30
215 Tyr Leu Tyr Gly Val Thr Gln Pro Lys His Leu Ser Ala Ser Met
216      35          40          45
217 Gly Gly Ser Val Glu Ile Pro Phe Ser Phe Tyr Tyr Pro Trp Glu
218      50          55          60
219 Leu Ala Ile Val Pro Asn Val Arg Ile Ser Trp Arg Arg Gly His
220      65          70          75
221 Phe His Gly Gln Ser Phe Tyr Ser Thr Arg Pro Pro Ser Ile His
222      80          85          90
223 Lys Asp Tyr Val Asn Arg Leu Phe Leu Asn Trp Thr Glu Gly Gln
224      95         100         105
225 Glu Ser Gly Phe Leu Arg Ile Ser Asn Leu Arg Lys Glu Asp Gln
226     110         115         120
227 Ser Val Tyr Phe Cys Arg Val Glu Leu Asp Thr Arg Arg Ser Gly
228     125         130         135
229 Arg Gln Gln Leu Gln Ser Ile Lys Gly Thr Lys Leu Thr Ile Thr
230     140         145         150
231 Gln Ala Val Thr Thr Thr Thr Trp Arg Pro Ser Ser Thr Thr
232     155         160         165
233 Thr Ile Ala Gly Leu Arg Val Thr Glu Ser Lys Gly His Ser Glu
234     170         175         180
235 Ser Trp His Leu Ser Leu Asp Thr Ala Ile Arg Val Ala Leu Ala
236     185         190         195
237 Val Ala Val Leu Lys Thr Val Ile Leu Gly Leu Leu Cys Leu Leu

```

RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/720,533

TIME: 14:02:30

Input Set : A:\pf054lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I720533.raw

```

238                               200                               205                               210
239 Leu Leu Trp Trp Arg Arg Lys Gly Ser Arg Ala Pro Ser Ser
240                               215                               220                               225
241 Asp Phe
246 <210> SEQ ID NO: 8
247 <211> LENGTH: 198
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <223> OTHER INFORMATION: Incyte Clone No: 1259405
255 <400> SEQUENCE: 8
256 Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu
257 1 5 10 15
258 Ser Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Ala Gln Leu
259 20 25 30
260 Ser Asp Ala Ala Lys Asn Phe Glu Asp Val Arg Cys Lys Cys Ile
261 35 40 45
262 Cys Pro Pro Tyr Lys Glu Asn Ser Gly His Ile Tyr Asn Lys Asn
263 50 55 60
264 Ile Ser Gln Lys Asp Cys Asp Cys Leu His Val Val Glu Pro Met
265 65 70 75
266 Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys Leu Arg Cys Glu
267 80 85 90
268 Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys Val Thr Ile
269 95 100 105
270 Ile Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Tyr Met Val
271 110 115 120
272 Tyr Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe Gly
273 125 130 135
274 His Ala Gln Leu Ile Gln Ser Asp Asp Asp Ile Gly Asp His Gln
275 140 145 150
276 Pro Phe Ala Asn Ala His Asp Val Leu Ala Arg Ser Arg Ser Arg
277 155 160 165
278 Ala Asn Val Leu Asn Lys Val Glu Tyr Ala Gln Gln Arg Trp Lys
279 170 175 180
280 Leu Gln Val Gln Glu Gln Arg Lys Ser Val Phe Asp Arg His Val
281 185 190 195
282 Val Leu Ser
287 <210> SEQ ID NO: 9
288 <211> LENGTH: 65
289 <212> TYPE: PRT
290 <213> ORGANISM: Homo sapiens
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <223> OTHER INFORMATION: Incyte Clone No: 1297384
296 <400> SEQUENCE: 9
297 Met Met Pro Arg Leu Leu Gly Leu Gly Gly Leu Phe Ser Phe Gly
298 1 5 10 15

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/720,533

DATE: 08/26/2002
TIME: 14:02:31

Input Set : A:\pf054lusn_seqlist.txt
Output Set: N:\CRF3\08262002\I720533.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:136; N Pos. 11,12
Seq#:138; N Pos. 505,518,527,540,565,566
Seq#:140; N Pos. 570,641
Seq#:145; N Pos. 973
Seq#:159; N Pos. 440
Seq#:178; N Pos. 11,139
Seq#:186; N Pos. 1932
Seq#:225; N Pos. 492
Seq#:239; N Pos. 122,124
Seq#:244; N Pos. 1651,1655

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/720,533

DATE: 08/26/2002

TIME: 14:02:31

Input Set : A:\pf054lusn_seqlist.txt

Output Set: N:\CRF3\08262002\I720533.raw

L:25 M:270 C: Current Application Number differs, Replaced Current Application Number
L:26 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:5261 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:136
L:5270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:10
L:5316 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:138
L:5333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:480
L:5334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:540
L:5378 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:140
L:5396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:540
L:5397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:600
L:5567 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:145
L:5592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:960
L:6057 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:159
L:6073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159 after pos.:420
L:6669 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:178
L:6678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:10
L:6680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:120
L:6914 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:186
L:6955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:186 after pos.:1920
L:8035 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:225
L:8052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225 after pos.:480
L:8450 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:239
L:8461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:120
L:8615 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:244
L:8651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:1620